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Mr. Michael McAteer, WAM (5HSRL-6J)
U.S. Environmental Protection Agency, Region 5
77 West Jackson Boulevard
Chicago, IL 60604-3590

Subject: Monthly Progress Report No. 7
CH2M HILL/E&E Oversight of Remedial Action Activities
Enviro-Chem (ECC) Superfund Site, Zionsville, Indiana
WA No. 008-RXBF-0530, Contract No. 68-W6-0025

Dear Mr. McAteer:

Enclosed is a copy of Progress Report No. 7 for the July 1998 reporting period and the corresponding photographic log.

Please call me at (513) 762-7605 if you have any questions.

Sincerely,

CH2M HILL

Timothy D. Harrison, P.E.
Site Manager

CIN\PRO7
Enclosures
c: Stephen Nathan/PO/USEPA; 5HSM-5J (w/o enclosure)
Peggy Hendrixson/CO/USEPA; 5MCC-10J (w/o enclosure)
Ike Johnson/PM/MKE
Al Erickson/RTL/MKE
Dan Lynch/Environment & Ecology
Gail Gill/AA/MKE

ECC RA Oversight Progress Report No. 7 (July 1998)

CH2M HILL Remedial Action (RA) Oversight Observation

This is the seventh RA oversight progress report submitted by CH2M HILL for RA activities at the Enviro-Chem (ECC) Superfund Site in Zionsville, Indiana. This progress report covers the period from July 1 through July 31, 1998.

Versar Inc., the ECC Trust's (Trust) prime remediation contractor, and several of their subcontractors performed field activities during the reporting period. Full-time oversight was provided at the ECC site during this reporting period at the request of U.S. EPA. Dan Lynch/Ecology & Environment, Inc. (CH2M HILL subcontractor) provided oversight through 7/24/98 and Tim Harrison/CH2M HILL provided oversight from 7/25/98 through 7/31/98.

Excavation of the "south concrete pad area" was completed during the reporting period. Mr. Harrison and Mr. Lynch collected all them remaining surface soil samples from the excavated area per the approved QAPjP and FSP. Samples were shipped to Recra Environmental Laboratories for analysis. Eighteen samples were collected during the reporting period. Locations for the samples collected are shown on the graph page attached at the end of this report.

Progress Made by Trust's Contractor This Reporting Period

The line items below list the status of a particular remediation task identified in the Trust's Revised Project Schedule dated June 1, 1998. Line items not listed were completed prior to this reporting period.

43. Construct Perimeter Roads—This item is in progress, but behind schedule. Roads have been "roughed in" but are not final based on specifications. This is not a critical path issue and has been delayed while the Trust address critical path issues.

44. Clean and Repair Erosion Ditches—No progress was made during this reporting period. This is not a critical path issue and has been delayed while the Trust addresses critical path issues.

45. Install Culvert System—This item was partially completed prior to this reporting period. No progress was made on this item during this period. The remainder of the culverts are expected to be installed during the next reporting period.

62. Pipe—Most of the underground piping installation between the storage tanks and the process building was completed and tested prior to this reporting period. Some external piping still remains to be installed within the central and upper northern SVE trenches.

63. Wire— The wiring of the process building and the storage tank controls continued

during this reporting period. Wiring of the SVE system process equipment will continue into the next reporting period.

64. SVE System Testing— This item was scheduled for completion during this reporting period but was not due to the delayed excavation of the south pad area. The remaining SVE piping cannot be installed until the soil has been placed and graded in the north and central areas. Testing is expected to continue into the next period.

65. SVE Startup and Shakedown (native soil)— This item was scheduled for completion during this reporting period. The northern system has been tested but the central system has not been installed and is behind schedule due to delays in the excavation of the south pad area.

66. SVE System Complete System— System is not complete. Installation of the system is expected to continue during the next reporting period.

67. WWT System Testing—Startup testing of the stationary and mobile wastewater treatment system continued during this reporting period. IDEM granted approval for continuous direct discharge to "unnamed ditch" during the previous reporting period.

70. Pumping and Treating of Ponded Water— This activity was initiated prior to this reporting period, continued through this period, and is expected to continue into the next period as necessary.

71. Wastewater Storage and Treatment System Complete-- The system is near completion. Some minor instrumentation and control functions must still be programmed into the programmable logic controller.

73. **North Treatment Area Phase 1 (Existing Soils)**— Activities continue as described in item 75 below.

75. Layout— This activity was completed in the northern area prior to this reporting period. The central area has not yet been completed. It is expected be completed during the next reporting period.

78A. Install Keyway Berm — Completed prior to this reporting period except for a short section adjacent to the decon pad that is expected to be completed during the next reporting period.

79 -84 Installation of North Area Native Soil SVE System — These items were completed during this reporting period.

85. Air monitoring — Air monitoring was conducted during this period and is expected to continue into the next reporting period.

87. **South Concrete Pad Area**— Work is discussed in item 89 below.

89. Install Well Points to Dewater Area— This activity was completed during this reported period.

112 - 117. Southern Pad Excavation— Excavation and sampling was completed during this period. Backfilling of the excavation was not completed but is expected to be completed

during next reporting period.

All other schedule line items are to be initiated after this reporting period.

Problems Resolved by the ECC Trust's Contractor

Flow from the 65-foot deep artesian well discovered during excavations in the "southern concrete pad area" was stopped by placement of approximately 20 cubic yards of concrete after the flow became excessive and bentonite closure failed. The area around and above the artesian well was backfilled and compacted during the reporting period.

Problem Areas Remaining

1. During geotechnical drilling of the southern concrete pad area, the Trust discovered on area of high VOCs (based on PID readings of the soil using an OVM) that they did not anticipate. This area was not intended to be remediated by the Trust under the current remedial design. Five borings were completed to further investigate the area. Three of the borings showed no obvious contamination (based on PID headspace readings performed by Trust). The remaining two borings showed indications of contamination and sampling/treatment wells ("hot spot" wells) were installed.

   Prior to this reporting period the test results from the two contaminated wells showed that the levels had significantly increased after initial contaminant reduction implying that a larger, non-local contaminant source may be present. The Trust's plan is to complete the south pad excavation in an attempt to cut off the potential source(s) from the "hot spot" wells and then retreat with Fenton's reagent.

2. During the excavation of the southern concrete pad, a sand seam containing water and free product was found in the southeast corner of the excavation. The seam is located at about fourteen feet below ground surface and appears to extend southward. The Trust extended the lateral excavation about 8 feet south of the remedial boundary in the area of the sand seem to see if it would "pinch out". The seam did not diminish but the excavation was halted by the Trust's engineer because of the close proximity of the "frac" tanks and the concern for sidewall stability of the excavation. This new "hot spot" will be addressed after further evaluations by the Trust in conjunction with issue number 1 described above.

Trust's Activities Planned

The following activities are expected to begin, or be completed, during the next reporting period based on Versar's current project schedule. The line items below list the status of specific remediation line items identified in the Trust's Revised Project Schedule dated June 1, 1998.

43. Construct Perimeter Roads— Complete construction of the interior site access road.

44. Clean and Repair Erosion Ditches—Initiate and complete construction of site erosion ditches per the specifications.

45. Install Culvert System—Complete construction of the site culvert system.

62-64. Process Building Equipment—Continue wiring SVE process equipment and ancillary plumbing and wiring of the process building. Functional testing of some equipment is also expected.

118-121. South Concrete Pad Area—Complete the installation of the north wall liner, and backfilling of the excavation.

124-127. North Treatment Area (Phase II)— Complete Phase II of the northern treatment area including installation of SVE piping and the Stage I cap.

Other line items shown on the contractor schedule are expected to take place after the next reporting period and are therefore not included in this report.

131-135. O&M of SVE System — Operation and maintenance of the SVE system were scheduled to start during this reporting period but did not. It is not expected to start until after the next reporting period due to delays in the southern concrete pad area excavation.

ECC Trust's Schedule Status

Based on the Trust's revised project schedule dated June 1, 1998, it appears that progress is about 5 weeks behind schedule at the end of this reporting period.

PROJECT NAME: ENVIRO CHEM @ NSL PROJECT NO: 799.003 SHEET 2 OF 2
PROJECT PHASE: DESIGNED BY: N. CRIDUN DATE:
DESCRIPTION: REF PTS FOR SAMPLING CHECKED BY: B. HULL DATE: 13 JUL 98
ASSUMPTIONS / REFERENCES

The Schneider Corporation

date	sample #	ref/distance 1	ref/distance 2
7/9/98	13*	F/37'	G/44'
7/9/98	14*	F/48'	G/26'
7/9/98	15*	G/30'	H/17'
7/9/98	16	F/49'	G/42'
7/9/98	17	G/36'	H/25'
7/9/98	18	F/90'	H/97'
7/9/98	19	F/91'	H/74'
7/9/98	20	F/94'	H/40'
7/15/98	21	I/23'	J/41'
7/15/98	22	I/40'	J/39'
7/15/98	23	I/61'	J/67'
7/15/98	24	I/92'	J/86'

date	sample #	ref/distance 1	ref/distance 2
7/29/98	25*	J/18'	M/58.5'
7/29/98	26*	J/72'	M/5'
7/29/98	27	J/54'	M/44'
7/29/98	28	J/28'	M/57'
7/29/98	29*	S/48'	Q/16'
7/29/98	30	S/43'	Q/25'

(*) Indicates side wall sample